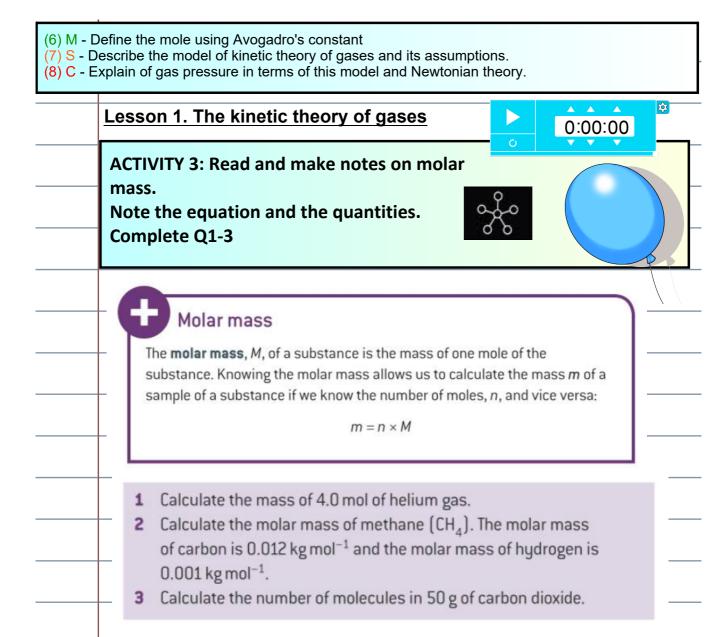
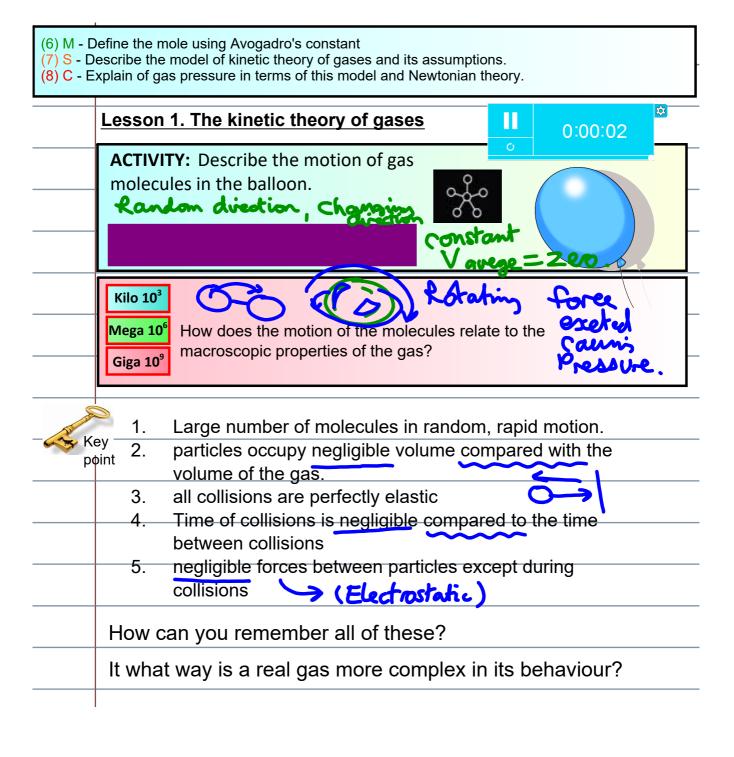
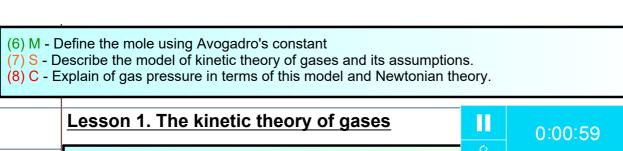
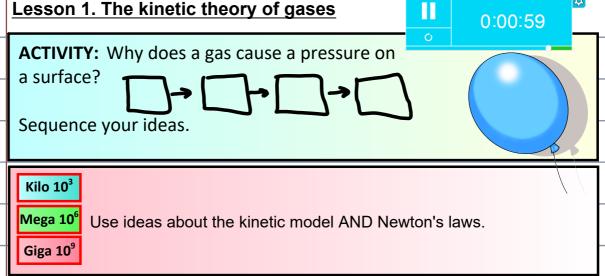
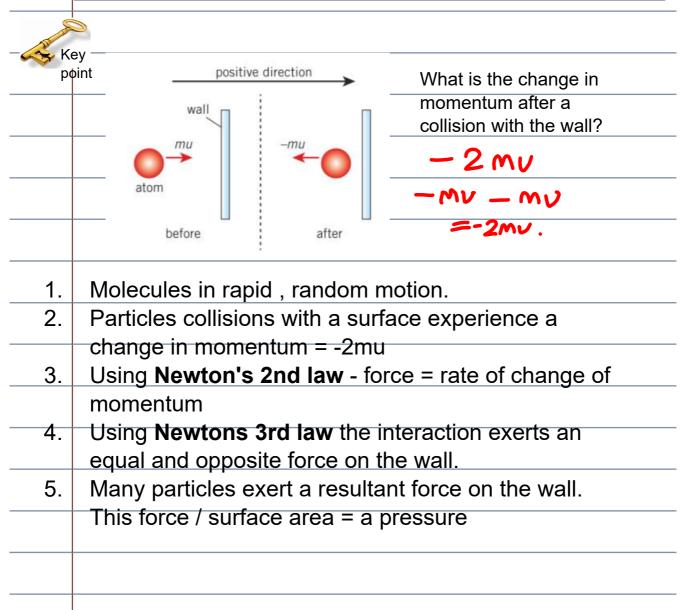
	Learning outcomes	Additional guidance				
	Learners should be able to demonstrate and apply their knowledge and understanding of:					
(a)	amount of substance in moles; Avogadro					
b)	constant N_A equals 6.02×10^{23} mol ⁻¹ model of kinetic theory of gases	assumptions for the model:				
~,	model of kinetic cheery of passes	large number of molecules in random, rapid motion				
		particles (atoms or molecules) occupy negligible				
		volume compared to the volume of gas all collisions are perfectly elastic and the time of				
		the collisions is negligible compared to the time between collisions				
		negligible forces between particles except during collision HSW1				
(c)	pressure in terms of this model	HSW1, 2 Explanation of pressure in terms of Newtonian theory.				
	Lesson 1. The kinetic theory o STARTER: How many gas particle					
	balloon?					
	Kilo 10 ³					
	Kilo 10 ³ Mega 10 ⁶ Justify your estimate usin	ng physics				
	Kilo 10³ Mega 106 Justify your estimate usir Giga 109 How could you measure					
	Mega 10 ⁶ Justify your estimate usir					
	Mega 10 ⁶ Justify your estimate usin Giga 10 ⁹ How could you measure One mole is defined as the a	amount of substance that contains as				
	Mega 10 ⁶ Justify your estimate using How could you measure One mole is defined as the amount would you measure	amount of substance that contains as n 0.012kg of Carbon-12.				
	Mega 10 ⁶ Justify your estimate using How could you measure One mole is defined as the amount of Avogadros constant (6.0)	amount of substance that contains as n 0.012kg of Carbon-12.				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amany particles as there are impoint Or Avogadros constant (6.00) N = n x N _A	amount of substance that contains as n 0.012kg of Carbon-12.				
	Mega 10 ⁶ Justify your estimate using How could you measure One mole is defined as the amount of Avogadros constant (6.0)	amount of substance that contains as n 0.012kg of Carbon-12. 22 x 10 ²³) N - Number & particles				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amany particles as there are impoint Or Avogadros constant (6.00) N = n x N _A	amount of substance that contains as n 0.012kg of Carbon-12. O2 x 10 ²³) N - Number of porticles n - number of moles				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amany particles as there are impoint Or Avogadros constant (6.00) N = n x N _A	amount of substance that contains as n 0.012kg of Carbon-12. 22 x 10 ²³) N - Number & particles				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amany particles as there are impoint Or Avogadros constant (6.00) N = n x N _A	amount of substance that contains as n. 0.012kg of Carbon-12. O2 x 10 ²³) N - Number of particles N - number of moles NA- Avogados constant				
	Mega 10° Giga 10° How could you measure One mole is defined as the amany particles as there are inpoint Or Avogadros constant (6.0) N = n x N _A	amount of substance that contains as n. 0.012kg of Carbon-12. 202 x 10 ²³) N - Number of particles n - number of moles NA- Avogados constant m - mass of gas				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amany particles as there are inpoint Or Avogadros constant (6.0 N = n x N _A N = ?	mount of substance that contains as n 0.012kg of Carbon-12. O2 x 10 ²³) N - Number of particles n - number of moles NA- Avogados constant m - mass of gas n - number of moles.				
	Mega 10° Justify your estimate using How could you measure One mole is defined as the amount of Avogadros constant (6.0° $N = n \times N_A$ $N = ?$ $m = n \times M$	amount of substance that contains as n. 0.012kg of Carbon-12. 202 x 10 ²³) N - Number of particles n - number of moles NA- Avogados constant m - mass of gas				
	Mega 10° Justify your estimate using Giga 10° How could you measure One mole is defined as the amount of Avogadros constant (6.0° N = n x N _A N = $\frac{1}{2}$ M = $\frac{1}{2}$	amount of substance that contains as n. 0.012kg of Carbon-12. 202 x 10 ²³) N - Number of particles n - number of moleo NA- Avogados constant m - mass of gas n - number of moles. M - Molar Mass				
	Mega 10° Justify your estimate using Giga 10° How could you measure One mole is defined as the amount of Avogadros constant (6.0° N = n x N _A N = ? $M = n \times M$ $M = n \times M$	mount of substance that contains as n 0.012kg of Carbon-12. O2 x 10 ²³) N - Number of particles n - number of moles NA- Avogados constant m - mass of gas n - number of moles. M - Molar Mass.				
	Mega 10° Justify your estimate using Giga 10° How could you measure One mole is defined as the amount of Avogadros constant (6.0) $N = n \times N_A$ $N = ?$ $M = n \times M$ $M = ?$	amount of substance that contains as n 0.012kg of Carbon-12. 202 x 10 ²³) N - Number of particles N - number of moles NA- Avogados constant m - mass of gas n - number of moles. M - Molar Mass				
	Mega 10° Justify your estimate using Giga 10° How could you measure One mole is defined as the amount of Avogadros constant (6.0° N = n x N _A N = ? $M = n \times M$ $M = n \times M$	amount of substance that contains as n 0.012kg of Carbon-12. O2 x 10 ²³) N - Number of particles N - number of moles NA- Avogados constant m - mass of gas n - number of moles. M - Molar Mass - 0.0104 Mass				

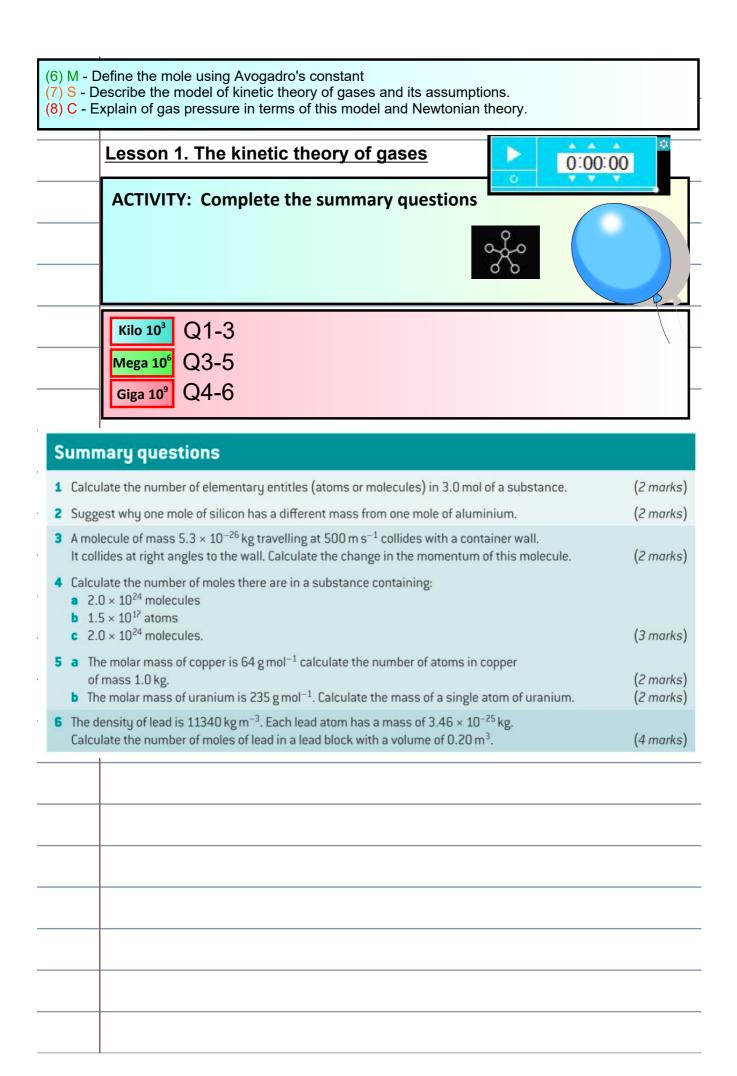












(6)	N/	Define the male using Avegadra's constant
(O)	IVI ·	Define the mole using Avogadro's constant
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/7\	0	Describe the model of kinetic theory of goes

(7) S - Describe the model of kinetic theory of gases and its assumptions.

	` '						,	_			
-	(8)) C -	Explain	of gas	pressure	in terms	s of this	model	and	Newtonian 1	theory.

Plenary 0:00:00
$N = n \times N_A$ $m = n \times M$
Identify each of the quantities and units above. Define 2 of the terms